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## Robust MPEG video watermarking technologies

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Nabil Adam , Yelena Yesha

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**2** Caption processing for MPEG video in MC-DCT compressed domain 98%



Jongho Nang , Ohyeong Kwon , Seungwook Hong

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The (cinema) caption processing that adds descriptive texts on the sequence of frames is an important video manipulation function that video editor should support. This paper proposes an efficient MC-DCT compressed domain approach to insert the caption into the MPEG-compressed video stream. It basically adds the DCT blocks of the caption image to the corresponding DCT blocks of the input frames one by one in MC-DCT domain as in [5]. However, the strength of the caption image is adjusted in th ...

**3** Opportunities for watermarking standards 97%










Fred Mintzer , Gordon W. Braudaway , Alan E. Bell

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**Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage** November 2001  
The main issue addressed in this paper is the design and implementation of an Advanced Digital Image Repository, which offers specialized services and a Dedicated User Interface for the protection and management of the Intellectual Property Rights of digitized material. In addition, another main research area of this contribution is the implementation of a Web Based Library, supported by advanced technologies, for the proper presentation of the digital cultural content. The work described in thi ...
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**Proceedings of the eighth ACM international conference on Multimedia** October 2000

The aim of this technical demonstration is to present the ongoing performance of our R&D watermarking scheme software for copyright and image content authentication. The proposed demonstration cover a large panel of original images (in gray levels and colors), signatures and attacks. Evaluation is performed according to ratio, visibility and robustness.


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**ACM SIGCOMM Computer Communication Review** April 2002  
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We present a simple, efficient, and secure multicast protocol with copyright protection in an open and insecure network environment. There is a wide variety of multimedia applications that can benefit from using our secure multicast protocol, e.g., the commercial pay-per-view video multicast, or highly secure military intelligence video conference. Our secure multicast protocol is designed to achieve the following goals.  
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Robert Filepp , James Challenger , Daniela Rosu

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Julie Dyke , Patricia Wojahn

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In this article, we discuss what we identified as the perils and promises of matching our technical communication students with teams of engineers in a capstone, client-based engineering course. Specifically, we identify the key issues that surfaced, focusing the discussion around three themes we saw as contributing to multidisciplinary success: participation level, role definition, and connections between interim processes/products and final deliverables. We conclude by sharing a series of init ...

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**6 A watermarking method based on fractal self-similarity**

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**10 Image watermarking using spread spectrum technique in log-2-spat**

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*Wong, P.H.W.; Au, O.C.; Wong, J.W.C.;*  
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**13 Image authentication by exact histogram specification**

*Coltuc, D.; Chassery, J.-M.; Bolon, Ph.;*  
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**14 Information-theoretic analysis of information hiding**

*Moulin, P.; O'Sullivan, J.A.;*  
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